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### Cell Lines

<b>ATCC Number:</b>	CRL-1651	<b>Price:</b>	\$175.00
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<b>Designation:</b>	COS-7	<b>Depositors:</b>	Y. Gluzman
<b>Biosafety Level:</b>	2	<b>Shipped:</b>	frozen
<b>Medium &amp; Serum:</b>	See Propagation	<b>Growth Properties:</b>	adherent
<b>Organism:</b>	<i>Cercopithecus aethiops</i> (African green monkey)	<b>Morphology:</b>	fibroblast
<b>Tissue:</b>	kidney; SV40 transformed		
<b>Cellular Products:</b>	T antigen		
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<b><u>Related Cell Culture Products</u></b>			
<b>Comments:</b>	This line was derived from the CV-1 cell line (ATCC CCL-70) by transformation with an origin defective mutant of SV40 which codes for wild-type T antigen. <a href="#">[1822]</a> The sale of any endangered wildlife is conditional on the issuance of a valid permit by the U.S. Fish and Wildlife Service and will not be consummated until a permit is obtained from the U.S. Fish and Wildlife Service.		
<b>Applications:</b>	transfection host		
<b>Virus Susceptibility:</b>	SV40 (lytic growth); SV40 tsA209 at 40C; SV40 mutants with deletions in the early region		
<b>Propagation:</b>	ATCC medium: Dulbecco's modified Eagle's medium with 4 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate and 4.5 g/L glucose, 90%; fetal bovine serum, 10% Temperature: 37.0 C		

<b>Subculturing:</b>	Remove medium, and rinse with 0.25% trypsin, 0.03% EDTA solution. Remove the solution and add an additional 1 to 2 ml of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37C) until the cells detach. Add fresh culture medium, aspirate and dispense into new culture flasks.
<b>Split Ratio:</b>	A subcultivation ratio of 1:4 to 1:8 is recommended
<b>Fluid Renewal:</b>	2 to 3 times per week
<b>Freeze Medium:</b>	culture medium 95%; DMSO, 5%
<b>Related Products:</b>	Recommended medium (without the additional supplements or serum described under ATCC Medium) - ATCC 30-2002 recommended serum - ATCC 30-2020 parental cell line - ATCC CCL-70
<b>References:</b>	<p><u>1822</u>: Gluzman Y. SV40-transformed simian cells support the replication of early SV40 mutants. <i>Cell</i> 23: 175-182, 1981. PubMed: <a href="#">6260373</a></p> <p><u>32447</u>: Fernandez LM, Puett D . Lys583 in the third extracellular loop of the lutropin/choriogonadotropin receptor is critical for signaling. <i>J. Biol. Chem.</i> 271: 925-930, 1996. PubMed: <a href="#">8557706</a></p> <p><u>32459</u>: Maestrini E, et al . A family of transmembrane proteins with homology to the MET-hepatocyte growth factor receptor. <i>Proc. Natl. Acad. Sci. USA</i> 93: 674-678, 1996. PubMed: <a href="#">8570614</a></p> <p><u>32500</u>: Campbell M, et al . The simian foamy virus type 1 transcriptional transactivator (Tas) binds and activates an enhancer element in the gag gene. <i>J. Virol.</i> 70: 6847-6855, 1996. PubMed: <a href="#">8794326</a></p> <p><u>32502</u>: Gonzalez Armas JC, et al . DNA immunization confers protection against murine cytomegalovirus infection. <i>J. Virol.</i> 70: 7921-7928, 1996. PubMed: <a href="#">8892915</a></p> <p><u>32547</u>: Jang SI, et al . Activator protein 1 activity is involved in the regulation of the cell type-specific expression from the proximal promoter of the human profilaggrin gene. <i>J. Biol. Chem.</i> 271: 24105-24114, 1996. PubMed: <a href="#">8798649</a></p> <p><u>32566</u>: Dittrich E, et al . A di-leucine motif and an upstream serine in the interleukin-6 (IL-6) signal transducer gp130 mediate ligand-induced endocytosis and down-regulation of the IL-6 receptor. <i>J. Biol. Chem.</i> 271: 5487-5494, 1996. PubMed: <a href="#">8621406</a></p> <p><u>32568</u>: Lee JH, et al . The proximal promoter of the human transglutaminase 3 gene. <i>J. Biol. Chem.</i> 271: 4561-4568, 1996. PubMed: <a href="#">8626812</a></p> <p><u>32720</u>: Chen Y, et al . Demonstration of binding of dengue virus envelope protein to target cells. <i>J. Virol.</i> 70: 8765-8772, 1996. PubMed: <a href="#">8971005</a></p> <p><u>32728</u>: Russell DW, Miller AD . Foamy virus vectors. <i>J. Virol.</i> 70: 217-222, 1996. PubMed: <a href="#">8523528</a></p> <p><u>32861</u>: Wright DA, et al . Association of human fas (CD95) with a ubiquitin-conjugating enzyme (UBC-FAP). <i>J. Biol. Chem.</i> 49: 31037-31043, 1996. PubMed: <a href="#">8940097</a></p> <p><u>32893</u>: Zhang J, et al . Dynamin and beta-arrestin reveal distinct mechanisms for G protein-coupled receptor internalization. <i>J. Biol. Chem.</i> 271: 18302-18305, 1996. PubMed: <a href="#">8702465</a></p> <p><u>33011</u>: Ozcelebi F, et al . Phosphorylation of cholecystokinin receptors expressed on chinese hamster ovary cells. <i>J. Biol. Chem.</i> 271: 3750-3755, 1996. PubMed: <a href="#">8631990</a></p> <p><u>33013</u>: Gibson S, et al . Functional LCK is required for optimal CD28-mediated activation of the TEC family tyrosine kinase EMT/ITK. <i>J. Biol. Chem.</i> 271: 7079-7083, 1996. PubMed: <a href="#">8636141</a></p> <p><u>33016</u>: Shaul PW, et al . Acylation targets endothelial nitric-oxide synthase to plasmalemmal caveolae. <i>J. Biol. Chem.</i> 271: 6518-6522, 1996. PubMed: <a href="#">8626455</a></p> <p><u>33032</u>: Ladner RD, et al . Identification of a consensus cyclin-dependent kinase phosphorylation site unique to the nuclear form of human deoxyuridine triphosphate nucleotidohydrolase. <i>J. Biol. Chem.</i> 271: 7752-7757, 1996. PubMed: <a href="#">8631817</a></p> <p><u>33038</u>: Wu X, et al . Demonstration of a physical interaction between microsomal triglyceride transfer protein and apolipoprotein B during the assembly of ApoB-containing lipoproteins. <i>J. Biol. Chem.</i> 271: 10277-10281, 1996. PubMed: <a href="#">8626595</a></p> <p><u>33052</u>: Hawes BE, et al . Phosphatidylinositol 3-kinase is an early intermediate in the G beta gamma-mediated mitogen-activated protein kinase signaling pathway. <i>J. Biol. Chem.</i> 271: 12133-12136, 1996. PubMed: <a href="#">8647803</a></p> <p><u>33137</u>: Arai H, Charo IF . Differential regulation of G-protein-mediated signaling by chemokine receptors. <i>J. Biol. Chem.</i> 271: 21814-21819, 1996. PubMed: <a href="#">8702980</a></p> <p><u>33163</u>: Hsieh CM, et al . APEG-1, a novel gene preferentially expressed in aortic smooth muscle cells, is down-regulated by vascular injury. <i>J. Biol. Chem.</i> 271: 17354-17359, 1996. PubMed: <a href="#">8663449</a></p> <p><u>33175</u>: Holtmann MH, et al . Multiple extracellular loop domains contribute critical determinants for agonist binding and activation of the secretin receptor. <i>J. Biol. Chem.</i> 271: 14944-14949, 1996. PubMed: <a href="#">8663161</a></p>

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